



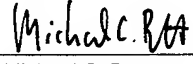
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November 26, 2003

CERTIFICATE OF MAILING 37 C.F.R. 1.8	
I hereby certify that this correspondence is being deposited with the U.S. Postal Service with sufficient postage as First Class Mail in an envelope addressed to: MS DD, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on the date below:	
November 26, 2003	
Date	Michael C. Barrett

MS DD
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

RE: *U.S. Patent Application No. 10/688,152 Entitled: "METHOD AND APPARATUS FOR PROBABILISTICALLY CLASSIFYING TISSUE IN VITRO AND IN VIVO USING FLUORESCENCE SPECTROSCOPY" -Rebecca Richards-Kortum et al.*
Our reference: TUUT:010USC1

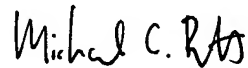
Sir:

Enclosed for filing in the above-referenced patent application is an Information Disclosure Statement and Form PTO-1449.

No fees are believed to be due in connection with the filing of this Information Disclosure Statement, however, should any fees under 37 C.F.R. §§ 1.16 to 1.21 be deemed necessary for any reason relating to the enclosed materials, the Commissioner is authorized to deduct the appropriate fees from Fulbright & Jaworski Deposit Account No.: 50-1212/TUUT:010USC1.

Please date stamp and return the enclosed postcard evidencing receipt of these materials.

Respectfully submitted,



Michael C. Barrett
Reg. No.44,523

MCB/cas
Encl.: As noted

25357097.1



PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:
Rebecca Richards-Kortum et al.

Serial No.: 10/688,152

Filed: October 17, 2003

For: METHOD AND APPARATUS FOR
PROBABILISTICALLY CLASSIFYING
TISSUE IN VITRO AND IN VIVO USING
FLUORESCENCE SPECTROSCOPY

Group Art Unit: Unknown

Examiner: Unknown

Atty. Dkt. No.: TUUT:010USC1

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November 26, 2003	<i>Michael C. Barrett</i>
Date	Michael C. Barrett

INFORMATION DISCLOSURE STATEMENT

MS DD
Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450

Sir:

In compliance with the duty of disclosure under 37 C.F.R. § 1.56, it is respectfully requested that this Information Disclosure Statement be entered and the documents listed on attached Form PTO-1449 be considered by the Examiner and made of record.

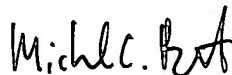
In accordance with 37 C.F.R. §§ 1.97(g), (h), this Information Disclosure Statement is not to be construed as a representation that a search has been made, and is not to be construed to be an admission that the information cited is, or is considered to be, material to patentability as defined in 37 C.F.R. § 1.56(b).

The present Information Disclosure Statement is being filed prior to the receipt of a first Official Action reflecting an examination on the merits, and hence is believed to be timely filed in accordance with 37 C.F.R § 1.97(b). No fees are believed to be due in connection with the filing of this Information Disclosure Statement, however, should any fees under 37 C.F.R. §§ 1.16 to 1.21 be deemed necessary for any reason relating to these materials, the Commissioner is authorized to deduct the appropriate fees from Fulbright & Jaworski Deposit Account No.: 50-1212/TUUT:010USC1.

This application is a continuation application of Serial No. 09/421,965, filed October 20, 1999 and is relied upon for an earlier filing date under 35 U.S.C. § 120. In accordance with Rule 37 C.F.R. § 1.98(d) copies of the listed documents are not enclosed as they have been previously cited by or submitted to the Patent and Trademark Office in prior application Serial No. 09/421,965.

Applicants respectfully request that the listed documents be made of record in the present case.

Respectfully submitted,



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Date: November 26, 2003

Form PTO-1449 (modified)

Atty. Docket No.
TUUT:010USC1Serial No.
10/688,152

List of Patents and Publications for Applicant's

Applicant
Rebecca Richards-Kortum *et al.*

INFORMATION DISCLOSURE STATEMENT

(Use several sheets if necessary)

Filing Date:
October 17, 2003Group:
UnknownU.S. Patent Documents
*See Page 1*Foreign Patent Documents
*See Page 1*Other Art
See Page 1

U.S. Patent Documents

Exam. Init.	Ref. Des.	Document Number	Date	Name	Class	Sub Class	Filing Date of App.
	A1	5,421,339	6-6-95	Ramanujam <i>et al.</i>	600	477	5-12-93
	A2	5,660,181	8-26-97	Ho <i>et al.</i>	600	408	12-12-94
	A3	5,697,373	12-16-97	Richards-Kortum <i>et al.</i>	600	475	3-14-95
	A4	6,174,291	1-16-01	McMahon <i>et al.</i>	600	564	3-9-98
	A5	6,095,982	8-1-00	Richards-Kortum <i>et al.</i>	600	476	12-11-97

Foreign Patent Documents

Exam. Init.	Ref. Des.	Document Number	Date	Country	Class	Sub Class	Translation Yes/No

Other Art (Including Author, Title, Date Pertinent Pages, Etc.)

Exam. Init.	Ref. Des.	Citation
	C1	Albert and Harris, <i>Multivariate Interpretation of Clinical Laboratory Data</i> . Marcel Dekker, New York, 1987.
	C2	Alfano <i>et al.</i> , "Human breast tissues studied by IR fourier transform Raman spectroscopy," <i>Lasers in Life Sc</i> , 4: 23-28, 1991.
	C3	Alfano <i>et al.</i> , "Optical spectroscopic diagnosis of cancer in normal and breast tissues," <i>J Optic Soc Am B</i> , 6:1015-1023, 1989.
	C4	American Cancer Society, "Cancer Facts and Figures," 12-13, 1995.
	C5	Andersson <i>et al.</i> , "Fluorescence imaging and point measurements of tissue: applications to the demarcation of malignant tumors and atherosclerotic lesions from normal tissue," <i>Photochem Photobiol</i> , 53:807-14, 1991.
	C6	Baraga <i>et al.</i> , "Rapid near-infrared Raman spectroscopy of human tissue with a spectrograph and CCD detector." <i>Appl. Spectr</i> , 46: 187-190, 1992.

25357071.1 Examiner:

DATE CONSIDERED:

EXAMINER: INITIAL IF REFERENCE CONSIDERED, WHETHER OR NOT CITATION IS IN CONFORMANCE WITH MPEP609; DRAW LINE THROUGH CITATION IF NOT IN CONFORMANCE AND NOT CONSIDERED. INCLUDE COPY OF THIS FORM WITH NEXT COMMUNICATION TO APPLICANT.

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	C7	Barrasso <i>et al.</i> , "Human papilloma viruses and cervical intraepithelial neoplasia: the role of colposcopy," <i>Gynecologic Oncology</i> , 27:197-207, 1987.					
	C8	Barron <i>et al.</i> , "Statistical model of the natural history of cervical carcinoma: II. Estimates of the transition time from dysplasia to carcinoma in situ," <i>JNCI</i> , 45:1025-1030, 1970.					
	C9	Braichotte <i>et al.</i> , "Clinical pharmacokinetic studies of photofrin by fluorescence spectroscopy in the oral cavity, the esophagus and the bronchi," <i>Cancer</i> , 75:2768-2778, 1995.					
	C10	Brookner <i>et al.</i> , "Safety analysis: relative risk of UV-fluorescence spectroscopy and endoscopy are comparable," <i>Photochem Photobiol</i> , 65:1020-1025, 1997.					
	C11	Burke and Ducatman, <i>Colposcopy, text and atlas</i> . Appleton and Large, Norwalk, CT., 1-213, 1991.					
	C12	Cothren <i>et al.</i> , "Gastrointestinal tissue diagnosis by laser induced fluorescence spectroscopy at endoscopy". <i>Gastrointestinal Endoscopy</i> 36:105-111, 1990.					
	C13	Devore, "Probability and Statistics for Engineering and the Sciences". Brooks/Cole, Pacific Grove, 1992.					
	C14	Dillon and Goldstein, <i>Multivariate Analysis: Methods and Applications</i> . John Wiley and Sons, New York, 1984.					
	C15	Fahey <i>et al.</i> , "Meta-analysis of Pap test accuracy," <i>American J Epidemiology</i> , 141:680-689, 1995.					
	C16	Farrell and Patterson, "A diffusion theory model of spatially resolved, steady-state diffus reflectance for the non invasive determination of tissue optical properties in vivo," <i>Medical Physic</i> , 19:879-888, 1992.					
	C17	Glassman <i>et al.</i> , "Ultraviolet excited fluorescence spectra from non-malignant and malignant tissues of the gynecologic tract," <i>Lasers in Life Sciences</i> , 5:49-58, 1992.					
	C18	Gray <i>et al.</i> , "Use of hematoporphyrin derivative in detection and management of cervical cancer," <i>Am J Obst & Gynec</i> , 99:766-770, 1967.					
	C19	Hung <i>et al.</i> , "Autofluorescence of normal and malignant bronchial tissue," <i>Lasers in Surgery and Medicine</i> , 11:99-105, 1991.					
	C20	Kapadia <i>et al.</i> , "Laser-induced fluorescence spectroscopy of human colonic mucosa," <i>Gastroenterology</i> , 99:150-157, 1990.					

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INFORMATION DISCLOSURE STATEMENT — PTO-1449 (MODIFIED)

Form PTO-1449 (modified)

Atty. Docket No.

TUUT:010USC1

Serial No.

10/688,152

List of Patents and Publications for Applicant's

Applicant

Rebecca Richards-Kortum *et al.*

INFORMATION DISCLOSURE STATEMENT

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Filing Date:

October 17, 2003

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Exam. Init.	Ref. Des.	Document Number	Date	Country	Class	Sub Class	Translation Yes/No
	C21	Kennedy and Pottier, "Endogenous protoporphyrin IX, a clinical useful photosensitizer for photodynamic therapy," <i>J Photochem Photobiol B: Biol</i> , 14:275-292, 1992.					
	C22	Koss, "The Papanicolaou test for cervical cancer detection: a triumph and a tragedy," <i>JAMA</i> , 261:737-743, 1989.					
	C23	Kurman <i>et al.</i> , "Interim guidelines of management of abnormal cervical cytology," <i>JAMA</i> , 271:1866-1869, 1994.					
	C24	Lam <i>et al.</i> , "Detection and localization of early lung cancer by imaging techniques," <i>Chest</i> , 103:12S-14S, 1993.					
	C25	Lam <i>et al.</i> , "Detection of dysplasia and carcinoma in situ by ratio fluorimetry," <i>Am Rev Respir Dis</i> 146:1458-1461, 1992.					
	C26	Liu <i>et al.</i> , "Raman, fluorescence and time-resolved light scattering as optical diagnostic techniques to separate diseased and normal biomedical media," <i>J Photochemistry and Photobiology</i> , 16:187-209, 1992.					
	C27	Loh <i>et al.</i> , "Oral versus intravenous administration of 5-aminolaevulinic acid for photodynamic therapy," <i>British Journal of Cancer</i> , 68:41-51, 1993.					
	C28	Lohmann <i>et al.</i> , "Fluorescence of the cervix uteri as a marker for dysplasia and invasive carcinoma," <i>European Journal of Obstetrics and Gynecology and Reproductive Biology</i> , 131:249-253, 1989.					
	C29	Mahadevan <i>et al.</i> , "A study of the fluorescence properties of normal and neoplastic human cervical tissue," <i>Lasers Surg Med</i> , 13:647-655, 1993.					
	C30	Marchesini <i>et al.</i> , "Light-induced fluorescence spectroscopy of adenomas, adenocarcinomas and non-neoplastic mucosa in human colon," <i>J Photochemistry and Photobiology</i> , 14:219-230, 1992.					
	C31	Mitchell, "Diagnosis and Treatment of Preinvasive Disease of the Female Lower Genital Tract" <i>The Cancer Bulletin</i> , 42:71-76, 1990.					
	C32	Mitchell, "Accuracy of Colposcopy," <i>Clinical Consultations in Obstetrics and Gynecology</i> , 6:70-73, 1994.					
	C33	Montan and Stromblad, "Spectral characterization of brain tumors utilizing laser-induced fluorescence," <i>Lasers in Life Sciences</i> , 1:275-285, 1987.					

25357071.1 Examiner:

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INFORMATION DISCLOSURE STATEMENT — PTO-1449 (MODIFIED)

Form PTO-1449 (modified)

Atty. Docket No.

TUUT:010USC1

Serial N .

10/688,152

List of Patents and Publications for Applicant's

Applicant

Rebecca Richards-Kortum *et al.*

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U.S. Patent Documents

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Other Art

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Exam. Init.	Ref. Des.	Document Number	Date	Country	Class	Sub Class	Translation Yes/No
	C34	Ramanujam <i>et al.</i> , "Spectroscopic diagnosis of cervical intraepithelial neoplasia (cin) in vivo using laser induced fluorescence spectra at multiple excitation wavelengths," <i>Lasers Surg Med</i> , 19:63-74, 1996.					
	C35	Ramanujam <i>et al.</i> , "In vivo diagnosis of cervical intraepithelial neoplasia using 337 excitation," <i>PNAS</i> , 91:10193-10197, 1994.					
	C36	Rava <i>et al.</i> , "Early detection of dysplasia in colon and bladder tissue using laser-induced fluorescence," <i>SPIE</i> 1426:68-78, 1991.					
	C37	Reid and Scalzi, "Genital Warts and Cervical Cancer," <i>Am J Obstet Gynecol</i> , 153:611-618, 1985.					
	C38	Reid <i>et al.</i> , "Genital warts and cervical cancer," <i>Am J Obstet Gynecol</i> , 149:815-823, 1984.					
	C39	Richards-Kortum <i>et al.</i> , "Spectroscopic diagnosis of colonic dysplasia," <i>Photochem Photobiol</i> , 53:777-786, 1991.					
	C40	Schomacker <i>et al.</i> , "Ultraviolet laser induced fluorescence of colonic tissue: basic biology and diagnostic potential," <i>Lasers in Surgery and Medicine</i> , 12:63-78, 1992.					
	C41	Schomacker <i>et al.</i> , "Ultraviolet laser-induced fluorescence of colonic polyps," <i>Gastroenterology</i> , 102:1155-1160, 1992.					
	C42	Walpole and Myers, <i>Probability and Statistics for Engineers and Scientists</i> . Decker, New York, 1987.					
	C43	Wilkinson, "Pap smears and screening for cervical neoplasia," <i>Clin Obstet Gynecol</i> , 33:817-825, 1990.					
	C44	Wong <i>et al.</i> , "Infrared spectroscopy of human cervical cells: evidence of extensive structural changes during carcinogenesis," <i>Proc Natl Acad Sci USA</i> , 88:10988-10992, 1991.					
	C45	World Health Organization, Geneva Cytological Screening in the Control of Cervical Cancer: Technical Guidelines, 1988.					
	C46	Wright <i>et al.</i> , in <i>Pathology of the Female Genital Tract</i> (eds. A. Blaustein), 156-326, Springer-Verlag, New York (1994).					
	C47	Yuanlong <i>et al.</i> , "Characteristic autofluorescence for cancer diagnosis and its origin," <i>Lasers in Surgery and Medicine</i> , 7:528-532, 1987.					

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